

## REMARKS

Please cancel Claims 18 and 30 without prejudice. Claims 1-17, 19-29 and 31-32 are pending. Claims 1, 3, 6-12, 14 and 17-21 are amended herein. No new matter is added as a result of the claim amendments.

### 102 Rejections

Claims 1-3, 6, 11-14, 17, 21-23, 26 and 32 are rejected under 35 U.S.C. § 102(a) as being anticipated by the "Specification of the Bluetooth System," Version 1.0B, dated December 1, 1999 (hereinafter, "the Bluetooth specification"). The Applicants have reviewed the cited reference and respectfully submit that the present invention as recited in Claims 1-3, 6, 11-14, 17, 21-23, 26 and 32 is not shown or suggested by the Bluetooth specification.

Independent Claim 1 recites that an embodiment of the present invention is directed to a method comprising "determining a first number of data packets received ... and a second number of data packets retransmitted." The first number and the second number are then used to determine a measure of data packet transfer integrity. Claims 2-3, 6 and 11 are dependent on Claim 1 and recite additional limitations.

Independent Claim 12 recites that an embodiment of the present invention is directed to a method comprising "a) transmitting a number of data packets over said wireless connection; ... c) retransmitting any data packets not successfully received in said step a);" and "d) determining a first number of data packets transmitted in said step a) and a second

number of data packets transmitted in said step c)." The first number and the second number are then used to determine a measure of data packet transfer integrity. Claims 13-14 and 17 are dependent on Claim 12 and recite additional limitations.

Independent Claim 21 recites that an embodiment of the present invention is directed to a transceiver "adapted to determine a measure of data packet transfer integrity, wherein said measure is sufficient for determining a number of data packets successfully received in said first-occurring transmission and a total number of data packets received in said first-occurring transmission and said subsequent transmission." Claims 22-23, 26 and 32 are dependent on Claim 21 and recite additional limitations.

Applicants respectfully submit that the Bluetooth specification does not show or suggest the claim limitations recited above. The Bluetooth specification only states that each vendor should determine how to measure link quality. The Bluetooth specification provides no details on how to measure link quality. In contrast to the Bluetooth specification, independent Claims 1, 12 and 21 each recite details on how to measure link quality.

Furthermore, the Bluetooth specification provides no definition of what constitutes link quality. Applicants respectfully submit that link quality may be defined in many different ways, such as upload and download data transfer rates in bits per second. The Bluetooth specification

does not show or suggest that link quality is related to the number of data packets received, the number of data packets successfully received, and/or the number of data packets retransmitted. In contrast, independent Claims 1, 12 and 21 each recite limitations associating link quality with the number of data packets successfully received in a first transmission and the number of data packets that are retransmitted.

Therefore, Applicants respectfully submit that the Bluetooth specification does not show or suggest the present claimed invention as recited by independent Claims 1, 12 and 21, and that Claims 1, 12 and 21 are in condition for allowance. As such, Applicants respectfully submit that the Bluetooth specification does not show or suggest the additional claimed features of the present invention as recited in Claims 2-3, 6, 11, 13-14, 17, 22-23, 26 and 32 dependent on Claims 1, 12 and 21, and that Claims 2-3, 6, 11, 13-14, 17, 22-23, 26 and 32 are in condition for allowance as being dependent on allowable base claims. Therefore, the Applicants respectfully assert that the rejection of Claims 1-3, 6, 11-14, 17, 21-23, 26 and 32 under 35 U.S.C. § 102(a) is traversed.

#### 103 Rejections

##### Claims 4, 5, 7, 15, 16, 19, 24, 25 and 27

Claims 4, 5, 7, 15, 16, 19, 24, 25 and 27 are rejected under 35 U.S.C. § 103(a) as being anticipated by the Bluetooth specification in view of Detlef et al. ("Detlef;" US Patent No. 6,243,568). The Applicants have reviewed the cited references and respectfully submit that the present invention as

recited in Claims 4, 5, 7, 15, 16, 19, 24, 25 and 27 is not shown or suggested by the Bluetooth specification and Detlef, alone or in combination.

As presented above, Applicants respectfully assert that the Bluetooth specification does not show or suggest the present invention as recited by independent Claims 1, 12 and 21. Claims 4, 5 and 7 are dependent on Claim 1 and recite additional limitations. Claims 15, 16 and 19 are dependent on Claim 12 and recite additional limitations. Claims 24, 25 and 27 are dependent on Claim 21 and recite additional limitations.

Applicants respectfully submit that Detlef does not overcome the shortcomings of the Bluetooth specification. Specifically, Applicants respectfully assert that Detlef, alone or in combination with the Bluetooth specification, does not show or suggest "determining a first number of data packets received ... and a second number of data packets retransmitted" as recited in independent Claim 1. Applicants also respectfully assert that Detlef, alone or in combination with the Bluetooth specification, does not show or suggest "a) transmitting a number of data packets over said wireless connection; ... c) retransmitting any data packets not successfully received in said step a);" and "d) determining a first number of data packets transmitted in said step a) and a second number of data packets transmitted in said step c)" as recited in independent Claim 12. In addition, Applicants respectfully assert that Detlef, alone or in combination with the Bluetooth specification, does not show or suggest a transceiver "adapted to determine a measure of data packet transfer integrity, wherein said measure is sufficient for determining a number of data packets

successfully received in said first-occurring transmission and a total number of data packets received in said first-occurring transmission and said subsequent transmission" as recited in independent Claim 21.

Therefore, Applicants respectfully submit that the Bluetooth specification and Detlef, alone or in combination, do not show or suggest the present claimed invention as recited by independent Claims 1, 12 and 21, and that Claims 1, 12 and 21 are in condition for allowance. As such, Applicants respectfully submit that the Bluetooth specification and Detlef, alone or in combination, also do not show or suggest the additional claimed features of the present invention as recited in Claims 4, 5, 7, 15, 16, 19, 24, 25 and 27 dependent on Claims 1, 12 and 21, and that Claims 4, 5, 7, 15, 16, 19, 24, 25 and 27 are in condition for allowance as being dependent on allowable base claims. Therefore, the Applicants respectfully assert that the rejection of Claims 4, 5, 7, 15, 16, 19, 24, 25 and 27 under 35 U.S.C. § 103(a) is traversed.

Furthermore, with respect to Claims 7, 19 and 27, Applicants respectfully submit that neither the Bluetooth specification nor Detlef, nor the combination of the Bluetooth specification and Detlef, show or suggest the counting of acknowledge signals, and in particular do not show or suggest the counting of acknowledge signals to determine the number of data packets successfully received in a first transmission and the number of data packets that are retransmitted in order to determine data packet transfer integrity. For these additional reasons, Applicants respectfully

submit that the rejection of Claims 7, 19 and 27 under 35 U.S.C. § 103(a) is traversed.

Claims 8, 20 and 28

Claims 8, 20 and 28 are rejected under 35 U.S.C. § 103(a) as being anticipated by the Bluetooth specification in view of Fukushima et al. ("Fukushima;" US Patent No. 6,587,985). The Applicants have reviewed the cited references and respectfully submit that the present invention as recited in Claims 8, 20 and 28 is not shown or suggested by the Bluetooth specification and Fukushima, alone or in combination.

As presented above, Applicants respectfully assert that the Bluetooth specification does not show or suggest the present invention as recited by independent Claims 1, 12 and 21. Claim 8 is dependent on Claim 1 and recites additional limitations. Claim 20 is dependent on Claim 12 and recites additional limitations. Claim 28 is dependent on Claim 21 and recites additional limitations.

Applicants respectfully submit that Fukushima does not overcome the shortcomings of the Bluetooth specification. Specifically, Applicants respectfully assert that Fukushima, alone or in combination with the Bluetooth specification, does not show or suggest "determining a first number of data packets received ... and a second number of data packets retransmitted" as recited in independent Claim 1. Applicants also respectfully assert that Fukushima, alone or in combination with the Bluetooth specification, does not show or suggest "a) transmitting a

number of data packets over said wireless connection; ... c) retransmitting any data packets not successfully received in said step a);" and "d) determining a first number of data packets transmitted in said step a) and a second number of data packets transmitted in said step c)" as recited in independent Claim 12. In addition, Applicants respectfully assert that Fukushima, alone or in combination with the Bluetooth specification, does not show or suggest a transceiver "adapted to determine a measure of data packet transfer integrity, wherein said measure is sufficient for determining a number of data packets successfully received in said first-occurring transmission and a total number of data packets received in said first-occurring transmission and said subsequent transmission" as recited in independent Claim 21.

Therefore, Applicants respectfully submit that the Bluetooth specification and Fukushima, alone or in combination, do not show or suggest the present claimed invention as recited by independent Claims 1, 12 and 21, and that Claims 1, 12 and 21 are in condition for allowance. As such, Applicants respectfully submit that the Bluetooth specification and Fukushima, alone or in combination, also do not show or suggest the additional claimed features of the present invention as recited in Claims 8, 20 and 28 dependent on Claims 1, 12 and 21, and that Claims 8, 20 and 28 are in condition for allowance as being dependent on allowable base claims. Therefore, the Applicants respectfully assert that the rejection of Claims 8, 20 and 28 under 35 U.S.C. § 103(a) is traversed.

Furthermore, Applicants respectfully submit that neither the Bluetooth specification nor Fukushima, nor the combination of the Bluetooth specification and Fukushima, show or suggest the counting of data packets having the same sequence number, and in particular do not show or suggest the counting of data packets having the same sequence number to determine the number of data packets successfully received in a first transmission and the number of data packets that are retransmitted in order to determine data packet transfer integrity. Fukushima describes a "retransmission count;" however, the retransmission count is only a count of how many times a particular data packet is retransmitted, and not a count of the number of data packets retransmitted. For these additional reasons, Applicants respectfully submit that the rejection of Claims 8, 20 and 28 under 35 U.S.C. § 103(a) is traversed.

Claims 9 and 29

Claims 9 and 29 are rejected under 35 U.S.C. § 103(a) as being anticipated by the Bluetooth specification in view of Eastmond et al. ("Eastmond;" US Patent No. 6,088,337). The Applicants have reviewed the cited references and respectfully submit that the present invention as recited in Claims 9 and 29 is not shown or suggested by the Bluetooth specification and Fukushima, alone or in combination.

As presented above, Applicants respectfully assert that the Bluetooth specification does not show or suggest the present invention as recited by independent Claims 1 and 21. Claim 9 is dependent on Claim 1 and recites



additional limitations. Claim 29 is dependent on Claim 21 and recites additional limitations.

Applicants respectfully submit that Eastmond does not overcome the shortcomings of the Bluetooth specification. Specifically, Applicants respectfully assert that Eastmond, alone or in combination with the Bluetooth specification, does not show or suggest "determining a first number of data packets received ... and a second number of data packets retransmitted" as recited in independent Claim 1. In addition, Applicants respectfully assert that Eastmond, alone or in combination with the Bluetooth specification, does not show or suggest a transceiver "adapted to determine a measure of data packet transfer integrity, wherein said measure is sufficient for determining a number of data packets successfully received in said first-occurring transmission and a total number of data packets received in said first-occurring transmission and said subsequent transmission" as recited in independent Claim 21.

Therefore, Applicants respectfully submit that the Bluetooth specification and Eastmond, alone or in combination, do not show or suggest the present claimed invention as recited by independent Claims 1 and 21, and that Claims 1 and 21 are in condition for allowance. As such, Applicants respectfully submit that the Bluetooth specification and Eastmond, alone or in combination, also do not show or suggest the additional claimed features of the present invention as recited in Claims 9 and 29 dependent on Claims 1 and 21, and that Claims 9 and 29 are in condition for allowance as being dependent on allowable base claims.

Therefore, the Applicants respectfully assert that the rejection of Claims 9 and 29 under 35 U.S.C. § 103(a) is traversed.

Claims 10 and 31

Claims 10 and 31 are rejected under 35 U.S.C. § 103(a) as being anticipated by the Bluetooth specification in view of Kerns (US Patent No. 5,956,330). The Applicants have reviewed the cited references and respectfully submit that the present invention as recited in Claims 10 and 31 is not shown or suggested by the Bluetooth specification and Kerns, alone or in combination.

As presented above, Applicants respectfully assert that the Bluetooth specification does not show or suggest the present invention as recited by independent Claims 1 and 21. Claim 10 is dependent on Claim 1 and recites additional limitations. Claim 31 is dependent on Claim 21 and recites additional limitations.

Applicants respectfully submit that Kerns does not overcome the shortcomings of the Bluetooth specification. Specifically, Applicants respectfully assert that Kerns, alone or in combination with the Bluetooth specification, does not show or suggest "determining a first number of data packets received ... and a second number of data packets retransmitted" as recited in independent Claim 1. In addition, Applicants respectfully assert that Kerns, alone or in combination with the Bluetooth specification, does not show or suggest a transceiver "adapted to determine a measure of data packet transfer integrity, wherein said measure is sufficient for

determining a number of data packets successfully received in said first-occurring transmission and a total number of data packets received in said first-occurring transmission and said subsequent transmission" as recited in independent Claim 21.

Therefore, Applicants respectfully submit that the Bluetooth specification and Kerns, alone or in combination, do not show or suggest the present claimed invention as recited by independent Claims 1 and 21, and that Claims 1 and 21 are in condition for allowance. As such, Applicants respectfully submit that the Bluetooth specification and Kerns, alone or in combination, also do not show or suggest the additional claimed features of the present invention as recited in Claims 10 and 31 dependent on Claims 1 and 21, and that Claims 10 and 31 are in condition for allowance as being dependent on allowable base claims. Therefore, the Applicants respectfully assert that the rejection of Claims 10 and 31 under 35 U.S.C. § 103(a) is traversed.

#### Conclusions

In light of the above remarks, the Applicants respectfully request reconsideration of the rejected claims.

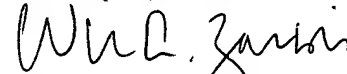
Based on the arguments presented above, the Applicants respectfully assert that Claims 1-17, 19-29 and 31-32 overcome the rejections of record and, therefore, the Applicants respectfully solicit allowance of these claims.

The Applicants have reviewed the references cited but not relied upon. The Applicants did not find these references to show or suggest the present claimed invention: US 5,513,185; and US 6,222,819.

The Examiner is invited to contact Applicants' undersigned representative if the Examiner believes such action would expedite resolution of the present Application.

Respectfully submitted,

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